Performance Data Sheet

AE2420Z-GS3C

General Information

Model	AE2420Z-GS3C	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-40	Watts (Capacity)	200	150	102	58.3
	Watts (Power)	209	206	203	202
	Amps	1.35	1.29	1.24	1.20
-35	Watts (Capacity)	286	227	169	113
	Watts (Power)	241	241	240	241
	Amps	1.46	1.43	1.42	1.41
-30	Watts (Capacity)	389	319	247	176
	Watts (Power)	274	278	280	285
	Amps	1.58	1.58	1.59	1.61
-25	Watts (Capacity)	511	426	338	249
	Watts (Power)	307	316	323	332
	Amps	1.70	1.73	1.77	1.82
-23.3	Watts (Capacity)	557	466	372	276
	Watts (Power)	318	329	338	349
	Amps	1.74	1.78	1.83	1.89
-20	Watts (Capacity)	654	551	443	333
	Watts (Power)	339	354	368	382
	Amps	1.82	1.88	1.95	2.03
-15	Watts (Capacity)	819	696	566	432
	Watts (Power)	369	392	413	435
	Amps	1.95	2.04	2.14	2.24
-10	Watts (Capacity)	1010	863	707	546
	Watts (Power)	396	428	459	489
	Amps	2.08	2.20	2.33	2.46

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1987.152	232.6792	1.86553	
C2	68.72599	-4.491148	0.0100051	
C3	-14.29171	8.447128	0.0148705	
C4	0.7894285	-0.1768427	0.000060299	
C5	-0.5022986	0.2808527	0.000581848	
C6	-0.1075976	-0.06256228	0.0000404042	
C7	0.002550643	-0.001062246	0	
C8	-0.006005493	0.002619281	0	
C9	-0.00173048	-0.0004366624	0	
C10	0.0004026551	0.0003845739	0	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE2420Z-GS3C

General Information

Model	AE2420Z-GS3C	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-40	Watts (Capacity)	271	212	149	83.8
	Watts (Power)	247	248	238	217
	Amps	1.14	1.12	1.08	1.00
-35	Watts (Capacity)	369	301	228	152
	Watts (Power)	282	289	286	273
	Amps	1.29	1.31	1.29	1.25
-30	Watts (Capacity)	486	404	318	227
	Watts (Power)	319	331	335	329
	Amps	1.46	1.51	1.52	1.51
-25	Watts (Capacity)	623	525	421	311
	Watts (Power)	358	375	386	388
	Amps	1.64	1.72	1.77	1.78
-23.3	Watts (Capacity)	674	570	459	342
	Watts (Power)	372	391	404	408
	Amps	1.71	1.80	1.86	1.88
-20	Watts (Capacity)	782	664	538	406
	Watts (Power)	401	423	440	449
	Amps	1.85	1.96	2.03	2.08
-15	Watts (Capacity)	966	824	673	515
	Watts (Power)	449	476	498	514
	Amps	2.06	2.20	2.31	2.39
-10	Watts (Capacity)	1180	1010	827	639
	Watts (Power)	503	534	562	585
	Amps	2.30	2.47	2.61	2.71

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2307.708	516.9936	1.92046	
C2	77.58715	13.71368	0.0365118	
C3	-18.59349	3.53163	0.0346874	
C4	0.8659821	0.2031463	0.000324071	
C5	-0.6582021	0.001206745	0.000612438	
C6	-0.08005505	0.01690819	-0.000163381	
C7	0.002604427	0.001498437	0	
C8	-0.0074341	-0.0005383707	0	
C9	-0.001128497	0.001076963	0	
C10	0.0001667062	-0.0002026364	0	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature